**Level 2 milli mol Chemical Reactions need moles?**

A chemical equation gives a person a great deal of information regarding a reaction. In this level you will explore the mole’s relationship to chemical equations. You will be required to do **both activities 1 and 2** . You will then make a contribution to learning by chosing one activity from three other choices.

1. Balance all the reactions given on the worksheet that you have been given. List four rules that you would recommend for balancing equations.

**AND**

2. Choose a balanced equation that represents a reaction that interests you. Translate the equation in at least 10 different ways. A hint will be helpful here.

A good example which you could follow would be the formation reaction of ammonia on page 357 in Prentice Hall Chemistry(new text).

\*\*\*please be curious in your choice of an equation\*\*\*\* Give a good reason for your choice of equation. **Please include the source of reference for your equation.**

**AND**

**Choose only 1 of the following:**

3. Make an activity that can be used by someone balancing equations.

Make a creative envelope to contain pieces that can be placed on a student’s desk so that they can balance the equation with the different colored shapes.

Be sure to give each shape a symbol. Include a card with the equation written on one side and the proper balanced equation on the other side. Be sure to choose an equation that is appropriate for a grade 11 Chemistry student.

4. Writing equations requires a certain amount basic memorization of ions, molecules and chemical formulas. Create a song, poem, game or other device to assist someone in remembering those important formulas that we worked with throughout Unit 2. Remember to be creative.

5. Students often have trouble distinguishing what category of chemical reaction that they are dealing with. Design an exercise or fun activity that uses reactions from sources other than your textbook that will help someone figure out what type of reaction that they are dealing with. By the time someone tries out your activity they should have no problems with recognizing or making the decision on the reaction type.

Due date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

I\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_have decided to pick choice\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and agree to complete the above task by the due date written above.

Signature:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(please print)